

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A channel structuring method of configuring channels wherein transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, said method comprising:

providing time frames by segmenting a communication channel of said n sub-carriers sub-carriers at every predetermined interval;

selecting from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and common pilot signals; and

inserting [[both]] a common control channel signal and a common pilot signal into the time frames by time division multiplexing with respect to ~~at least one of~~ the selected sub-carriers while ensuring that at least one of the selected sub-carriers has both a common control channel signal and a common pilot signal inserted therein.

Claim 2 (Currently Amended): A channel structuring method as claimed in claim 1, wherein:

the common control channel signal and the common pilot signal are inserted periodically into every time frame of said selected subcarriers sub-carriers.

Claim 3 (Currently Amended): A channel structuring method as claimed in claim 2, wherein, in regard to the common control channel signal and the common pilot signal periodically inserted into every time frame of said selected subcarriers sub-carriers, either the common control channel signal or the common pilot signal, or both thereof, is/are inserted at

the same timing as either the common control channel signal or the common pilot signal, or both thereof of other subcarriers sub-carriers.

Claim 4 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common control channel signal is inserted continuously into the time frame of said selected subcarriers sub-carriers, and the common pilot signal is inserted periodically into every time frame of said selected subcarriers sub-carriers.

Claim 5 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common pilot signal is inserted continuously into the time frame of said selected subcarrier sub-carrier, and the common control channel signal is inserted periodically into every time frame of said selected subcarriers sub-carriers.

Claim 6 (Canceled).

Claim 7 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common control channel signal is inserted continuously into the time frame of said selected subcarriers sub-carriers, and the common pilot signal is inserted continuously into the time frame of said selected subcarriers sub-carriers.

Claim 8 (Currently Amended): A base station in which transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, comprising:

a common channel signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and inserting a common control channel signal into the selected sub-carriers, and

a pilot signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common pilot signal and inserting a common pilot signals into the selected sub-carriers, wherein time frames are provided by segmenting a communication channel of said n subcarriers at every predetermined interval, and [[both]] a common control channel signal and a common pilot signal are inserted into the time frames by time division multiplexing with respect to at least one of the selected sub-carriers while ensuring that at least one of the selected sub-carriers has both a common control channel signal and a common pilot signal inserted therein.

Claim 9 (Currently Amended): A base station as claimed in claim 8, wherein the common control channel signal and the common pilot signal are inserted periodically into every time frame of said selected subcarriers sub-carriers.

Claim 10 (Currently Amended): A base station as claimed in claim 8, wherein said common pilot signal insertion unit selects a predetermined number of subcarriers sub-carriers from said n subcarriers sub-carriers, and inserts the common pilot signal periodically into every time frame of said selected subcarriers sub-carriers.

Claim 11 (Currently Amended): A base station as claimed in claim 9, wherein said common pilot signal insertion unit selects a predetermined number of subcarriers sub-carriers from said n subcarriers sub-carriers and inserting the common pilot periodically into every time frame of said selected subcarriers sub-carriers, and said common control channel signal insertion unit and said common pilot signal insertion unit insert the common control channel signal and the common pilot signal, respectively, into said selected subcarriers sub-carriers such that a timing of the insertion of either the common control channel signal or the common pilot signal, or both, are same as the timing of either the common control channel signal or the common pilot signal, or both, of other subcarriers sub-carriers.

Claim 12 (Currently Amended): A base station as claimed in claim 8, wherein the common control channel signal is inserted continuously into every time frame of said selected subcarriers sub-carriers, and the common pilot signal is inserted periodically into every time frame of said selected subcarriers sub-carriers.

Claim 13 (Currently Amended): A base station as claimed in claim 8, wherein the common pilot signal is inserted continuously into every time frame of said selected subcarriers sub-carriers, and the common control channel signal is inserted periodically into every time frame of said sale selected subcarriers sub-carriers.

Claim 14 (Canceled).

Claim 15 (Currently Amended): A base station as claimed in claim 8, wherein the common control channel signal is inserted continuously into every time frame of said selected subcarriers sub-carriers, and the common pilot signal is inserted continuously into every time frame of said selected subcarriers sub-carriers.

Claim 16 (Canceled).

Claim 17 (Currently Amended): A base station as claimed in claim 9, wherein said common pilot signal insertion unit selects a predetermined number of subcarriers sub-carriers from said n subcarriers sub-carriers, and inserts the common pilot signal periodically into every time frame of said selected subcarriers sub-carriers.

Claim 18 (Canceled).